

A B S T R A C T

A METHOD AND APPARATUS FOR IMAGING USING SHEAR WAVES

5 An imaging method for observing the propagation of a
shear wave simultaneously at a multitude of points in a
diffusing viscoelastic medium (1). The shear wave is
caused to be generated by firing at least one focused
ultrasound compression wave into the viscoelastic medium
10 by means of an array of transducers (6), and then
emitting at a fast rate and using the same array of
transducers, unfocused ultrasound compression waves
serving to obtain a succession of images of the medium,
and processing the images obtained in this way in
15 deferred time in order to determine the movements of the
medium during the propagation of the shear wave.

20

25

30

Translation of the title and the abstract as published by the PCT Authorities,
35 possibly after making changes, ex officio, e.g. under PCT Rules 37.2, 38.2, and/or
48.3.